

## Product datasheet for **SR320159**

### FGFR1 Human siRNA Oligo Duplex (Locus ID 2260)

#### Product data:

Product Type:	siRNA Oligo Duplexes
Purity:	HPLC purified
Quality Control:	Tested by ESI-MS
Sequences:	Available with shipment
Stability:	One year from date of shipment when stored at -20°C.
# of transfections:	Approximately 330 transfections/2nmol in 24-well plate under optimized conditions (final conc. 10 nM).
Note:	Single siRNA duplex (10nmol) can be ordered.
RefSeq:	<a href="#">NM_000604</a> , <a href="#">NM_001174063</a> , <a href="#">NM_001174064</a> , <a href="#">NM_001174065</a> , <a href="#">NM_001174066</a> , <a href="#">NM_001174067</a> , <a href="#">NM_015850</a> , <a href="#">NM_023105</a> , <a href="#">NM_023106</a> , <a href="#">NM_023107</a> , <a href="#">NM_023108</a> , <a href="#">NM_023109</a> , <a href="#">NM_023110</a> , <a href="#">NM_023111</a> , <a href="#">NM_032191</a> , <a href="#">NM_001354367</a> , <a href="#">NM_001354368</a> , <a href="#">NM_001354369</a> , <a href="#">NM_001354370</a>
UniProt ID:	<a href="#">P11362</a>
Synonyms:	H2, H3, H4, H5, CEK, FLG, FLT2, KAL2, BFGFR, C-FGR, CD331, N-SAM
Components:	FGFR1 (Human) - 3 unique 27mer siRNA duplexes - 2 nmol each (Locus ID 2260) Included - SR30004, Trilencer-27 Universal Scrambled Negative Control siRNA Duplex - 2 nmol Included - SR30005, RNase free siRNA Duplex Resuspension Buffer - 2 ml



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**Summary:**

The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]

**Performance Guaranteed:**

OriGene guarantees that at least two of the three Dicer-Substrate duplexes in the kit will provide at least 70% or more knockdown of the target mRNA when used at 10 nM concentration by quantitative RT-PCR when the TYE-563 fluorescent transfection control duplex (cat# SR30002) indicates that >90% of the cells have been transfected and the HPRT positive control (cat# SR30003) provides 90% knockdown efficiency.

For non-conforming siRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the siRNA kit. To arrange for a free replacement with newly designed duplexes, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled siRNA control (quantitative RT-PCR data required).